



Federal Emergency Management Agency

Washington, D.C. 20472

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 99-09-1168P

The Honorable Mike Franzoia
Mayor, City of Elko
1751 College Avenue
Elko, NV 89801

Community: City of Elko, NV
Community No.: 320010
Panel Affected: 0002 C
Effective Date of **JUL 21 2000**
This Revision:

102-D-A

Dear Mayor Franzoia:

This responds to a request that the Federal Emergency Management Agency (FEMA) revise the effective Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) report for your community in accordance with Part 65 of the National Flood Insurance Program (NFIP) regulations. In a letter dated August 17, 1999, Mr. Ferron S. Konakis, P.E., City Engineer, City of Elko Engineering Department, requested that FEMA revise the FIRM and FIS report to show the effects of construction of five 48-inch-diameter reinforced-concrete pipe culverts (RCPs) along Golf Course Drainage from just upstream to approximately 400 feet upstream of Idaho Street and grading along the left overbank of the channel from approximately 400 feet upstream to approximately 500 feet upstream of Idaho Street.

All data required to complete our review of this request were submitted with letters from Ms. Margaret Bowker, P.E., President, Nimbus Engineers; Mr. Eric W. Lattin, Summit Engineering Corporation; and Mr. Konakis.

We have completed our review of the submitted data and the flood data shown on the effective FIRM and FIS report. We have revised the FIRM and FIS report to modify the elevations, floodplain and floodway boundary delineations, and zone designations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) along Golf Course Drainage from just upstream to approximately 500 feet upstream of Idaho Street. As a result of the modifications, the base flood elevations (BFEs) for Golf Course Drainage and the widths of the Special Flood Hazard Area (SFHA), the area that would be inundated by the base flood, and the regulatory floodway decreased. The SFHA designated Zone AE, with BFEs determined, and the floodway along Golf Course Drainage from just upstream to approximately 400 feet upstream of Idaho Street were removed. The base flood is contained in the five 48-inch-diameter RCPs along Golf Course Drainage from just upstream to approximately 400 feet upstream of Idaho Street. The modifications are shown on the enclosed annotated copies of FIRM Panel(s) 0002 C, Profile Panel(s) 10P, and affected portions of the Floodway Data Table. This Letter of Map Revision (LOMR) hereby revises the above-referenced panel(s) of the effective FIRM and the affected portions of the FIS report, both dated November 16, 1995.

The modifications are effective as of the date shown above. The map panel(s) as listed above and as modified by this letter will be used for all flood insurance policies and renewals issued for your community.

The following table is a partial listing of existing and modified BFEs:

Location	Existing BFE (feet)*	Modified BFE (feet)*
Approximately 150 feet upstream of Idaho Street	5,085	None

*Referenced to the National Geodetic Vertical Datum, rounded to the nearest whole foot

Public notification of the modified BFEs will be given in the *Elko Daily Free Press* on or about August 16 and August 23, 2000. A copy of this notification is enclosed. In addition, a notice of changes will be published in the *Federal Register*. Within 90 days of the second publication in the *Elko Daily Free Press*, a citizen may request that FEMA reconsider the determination made by this LOMR. Any request for reconsideration must be based on scientific or technical data. All interested parties are on notice that, until the 90-day period elapses, the determination to modify the BFEs presented in this LOMR may itself be modified.

Because this LOMR will not be printed and distributed to primary users, such as local insurance agents and mortgage lenders, your community will serve as a repository for these new data. We encourage you to disseminate the information reflected by this LOMR throughout the community, so that interested persons, such as property owners, local insurance agents, and mortgage lenders, may benefit from the information. We also encourage you to prepare a related article for publication in your community's local newspaper. This article should describe the assistance that officials of your community will give to interested persons by providing these data and interpreting the NFIP maps.

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel(s) and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

The floodway is provided to your community as a tool to regulate floodplain development. Therefore, the floodway modifications described in this LOMR, while acceptable to FEMA, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

This LOMR is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development and for ensuring all necessary permits required by Federal or State law have been received. State, county, and community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction in the SFHA. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

The basis of this LOMR is, in whole or in part, a channel-modification/culvert project. NFIP regulations, as cited in Paragraph 60.3(b)(7), require that communities ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management regulations. Consequently, the ultimate responsibility for maintenance of the modified channel and culverts rests with your community.

This determination has been made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and is in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128,

and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria are the minimum requirements and do not supersede any State or local requirements of a more stringent nature. This includes adoption of the effective FIRM and FIS report to which the regulations apply and the modifications described in this LOMR.

FEMA makes flood insurance available in participating communities; in addition, we encourage communities to develop their own loss reduction and prevention programs. Through the *Project Impact: Building Disaster Resistant Communities* initiative, launched by FEMA Director James Lee Witt in 1997, we seek to focus the energy of businesses, citizens, and communities in the United States on the importance of reducing their susceptibility to the impact of all natural disasters, including floods, hurricanes, severe storms, earthquakes, and wildfires. Natural hazard mitigation is most effective when it is planned for and implemented at the local level, by the entities who are most knowledgeable of local conditions and whose economic stability and safety are at stake. For your information, we are enclosing a copy of a pamphlet describing this nationwide initiative. For additional information on *Project Impact*, please visit our Web site at www.fema.gov/impact.

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by contacting the Director, Mitigation Division of FEMA in San Francisco, California, at (415) 923-7177. If you have any questions regarding this LOMR, please contact the FEMA Map Assistance Center, toll free, at 1-877-FEMA MAP (1-877-336-2627).

Sincerely,



Max H. Yuan, P.E., Project Engineer
Hazards Study Branch
Mitigation Directorate

For: Matthew B. Miller, P.E., Chief
Hazards Study Branch
Mitigation Directorate

Enclosures

cc: Mr. Ferron S. Konakis, P.E.
City Engineer
City of Elko Engineering Department

Ms. Margaret Bowker, P.E.
President
Nimbus Engineers

Mr. Eric W. Lattin
Summit Engineering Corporation

CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE CITY OF ELKO, ELKO COUNTY, NEVADA, UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On November 16, 1995, the Federal Emergency Management Agency identified Special Flood Hazard Areas (SFHAs) in the City of Elko, Elko County, Nevada, through issuance of a Flood Insurance Rate Map (FIRM). The Mitigation Directorate has determined that modification of the elevations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for certain locations in this community is appropriate. The modified base flood elevations (BFEs) revise the FIRM for the community.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

A hydraulic analysis was performed to incorporate construction along Golf Course Drainage of five 48-inch-diameter reinforced-concrete pipe culverts from just upstream to approximately 400 feet upstream of Idaho Street and grading along the left overbank of the channel from approximately 400 feet upstream to approximately 500 feet upstream of Idaho Street. This has resulted in a revised delineation of the regulatory floodway, a decrease in SFHA width, and decreased BFEs for Golf Course Drainage. The SFHA designated Zone AE, with base flood elevations determined, along Golf Course Drainage from just upstream to approximately 400 feet upstream of Idaho Street was removed. The aforementioned five 48-inch-diameter culverts along Golf Course Drainage contain the base flood. The table below indicates existing and modified BFEs for selected locations along the affected lengths of the flooding source(s) cited above.

Location	Existing BFE (feet)*	Modified BFE (feet)*
Approximately 150 feet upstream of Idaho Street	5,085	None

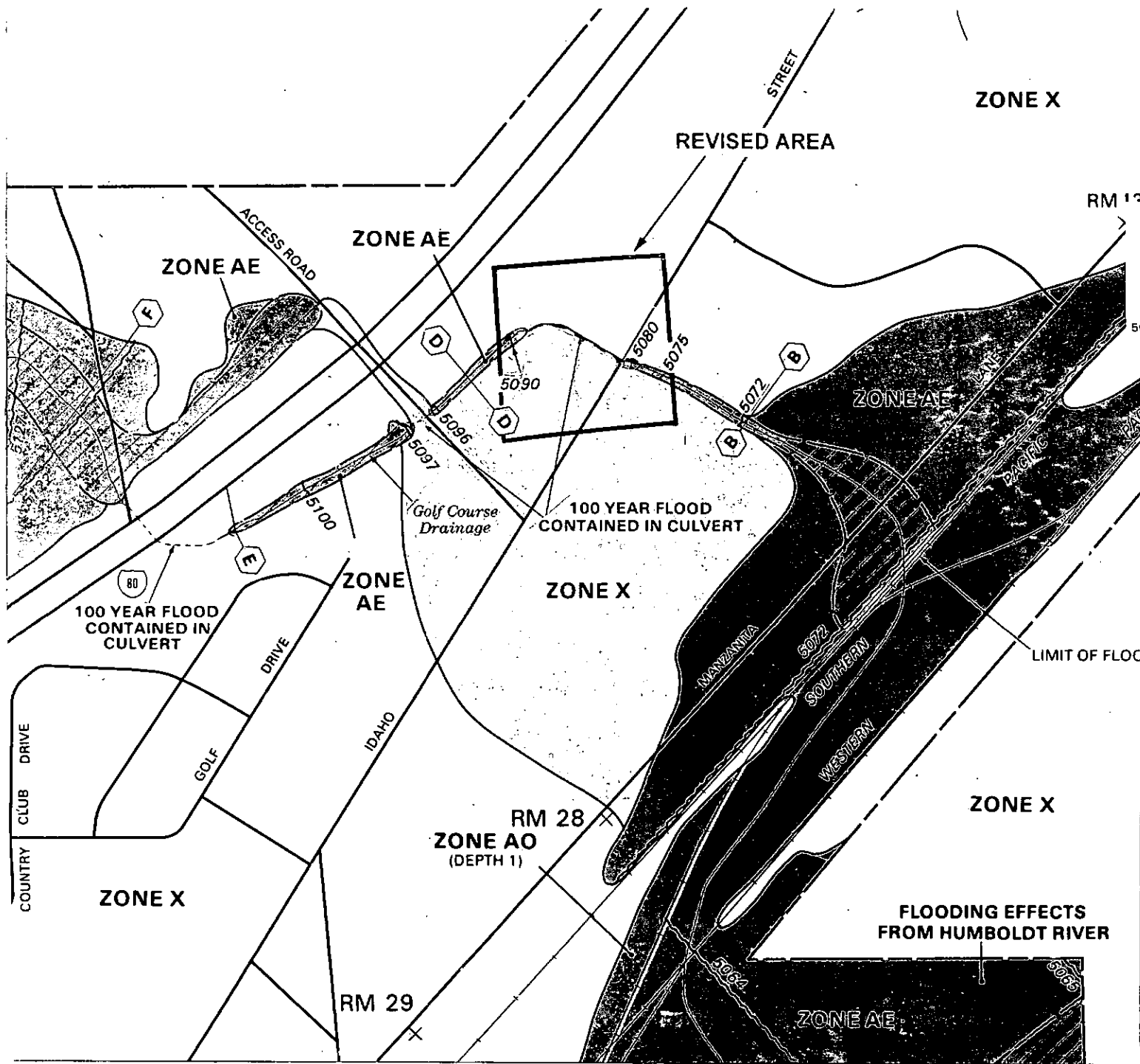
*National Geodetic Vertical Datum, rounded to nearest whole foot

Under the above-mentioned Acts of 1968 and 1973, the Mitigation Directorate must develop criteria for floodplain management. To participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Mitigation Directorate reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Mitigation Directorate's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable Mike Franzoia
Mayor, City of Elko
1751 College Avenue
Elko, NV 89801



APPROXIMATE SCALE IN FEET
500 0 500

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
ELKO,
NEVADA
ELKO COUNTY

(SEE MAP INDEX FOR PANELS NOT PRINTED)

**REVISED TO
REFLECT LOMR
DATED JUL 21 2000**

COMMUNITY PANEL NUMBER
320010 0002 C

MAP REVISED:
NOVEMBER 16, 1995



Federal Emergency Management Agency

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
(FEET NGVD)								
Fifth Street Drainage								
A	445 ¹	22	128	1.8	5,206.7	5,206.7	5,206.7	.0
B	1,365 ¹	16	30	7.8	5,220.1	5,220.1	5,220.2	.1
C	2,065 ¹	24	34	6.8	5,236.1	5,236.1	5,236.1	.0
D	2,505 ¹	31	359	1.0	5,255.0	5,255.0	5,255.1	.1
E	3,195 ¹	26	35	6.8	5,259.8	5,259.8	5,259.8	.0
F	4,505 ¹	22	71	3.4	5,286.6	5,286.6	5,286.5	.0
G	5,575 ¹	31	38	6.4	5,304.6	5,304.6	5,304.6	.0
Golf Course Drainage								
A	2,140 ²	450	615	2.3	5,072.6	5,072.6	5,073.0	.4
B	2,900 ²	35	109	4.8	5,072.2	5,072.2	5,073.0	.8
C	3,460²	29	78	6.7	5,080.7	5,080.7	5,080.7	.0
D	4,060 ²	30	67	8.6	5,093.7	5,093.7	5,093.7	.0
E	5,035 ²	29	66	8.6	5,105.8	5,105.8	5,105.8	.0
F	5,815 ²	260	1,189	1.2	5,121.4	5,121.4	5,121.4	.0
G	7,015 ²	81	181	8.0	5,138.0	5,138.0	5,138.1	.1
H	8,295 ²	101	182	8.0	5,161.0	5,161.0	5,161.5	.5
I	9,385 ²	90	182	8.0	5,179.6	5,179.6	5,180.0	.4

REVISED DATA

¹Feet Above Limit of Detailed Study
²Feet Above Confluence with Humboldt River

REVISED TO
REFLECT LOMR

T
A
B
L
E

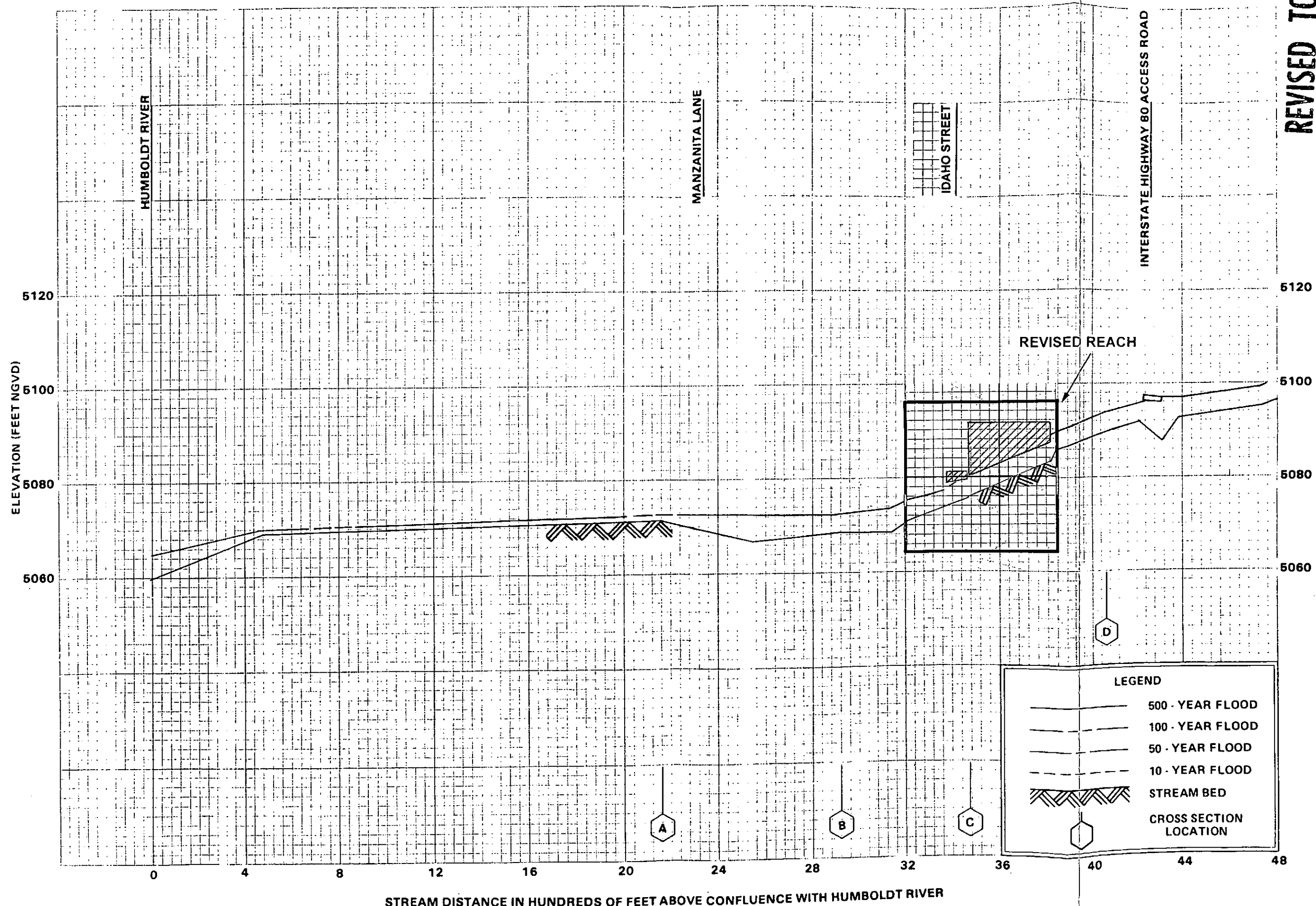
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FEDERAL EMERGENCY MANAGEMENT AGENCY

CITY OF ELKO, NV
(ELKO COUNTY)

FLOODWAY DATA DATED JUL 21 2000

FIFTH STREET DRAINAGE - GOLF COURSE DRAINAGE



REVISED TO
REFLECT 10MB
DATED JUL 29 2000

FLOOD PROFILES
GOLF COURSE DRAINAGE

FEDERAL EMERGENCY MANAGEMENT AGENCY
CITY OF ELKO, NV
(ELKO CO.)